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Local currents are the key theoretical concept in current explorations of the interactions of particles, both for the strong interactions and for the electromagnetic, weak and gravitational interactions. Their applications have given rise to problems in phenomenology as well as to those of mathematical structure.
This volume brings together review talks presented at an informal conference on local currents and their applications. Since the conference included both those working on the mathematical foundations of field theory and those pursuing the physcial implications of the latest experimental results, a special effort was made by the speakers to be generally understandable. This should make the present volume especially helpful to those trying to orient themselves in current research. All the themes discussed will continue to be important in the further development of particle physics and quantum field theory. They include: anomalies in the matrix elements of currents, the behavior of current commutation near the light cone, current algebra, the relation of currents to scaling and to broken symmetry, the construction of currents via the representation theory of current algebra and constructive field theory.

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